

Application No. 10/656,698

Second Reply to Office Action of September 22, 2005 and Advisory Action of February 3, 2006

Amendments to and Listing of the Claims:

Please cancel claims 1, 3, 5, 23, 25, cancel the even-numbered claims between 2 and 42 without prejudice to the filing of a divisional application, and amend claims 7, 9, 11, 13, 15, 17, 19, 21, 27, 29, 31, 33, 35, 37, 39 and 41, so that the claims read as follows:

1-6. (cancelled)

7. (currently amended) An alloy type thermal fuse according to claim 3 containing a thermal fuse element comprising an alloy composition in which Bi is larger than 50% and 56% or smaller, and a balance is Sn, wherein said fuse element is connected between lead conductors, and at least a portion of each of said lead conductors which is bonded to said fuse element is covered with a Sn or Ag film.

8. (cancelled)

9. (currently amended) ~~An~~ The alloy type thermal fuse according to claim 57, wherein said fuse element is connected between lead conductors, and at least a portion of each of said lead conductors which is bonded to said fuse element is covered with a Sn or Ag film contains inevitable impurities.

10. (cancelled)

11. (currently amended) An alloy type thermal fuse according to claim 3 containing a thermal fuse element comprising an alloy composition in which Bi is larger than 50% and 56% or smaller, and a balance is Sn, wherein lead conductors are bonded to ends of said fuse element, respectively, a flux is applied to said fuse element, said flux-applied fuse element is passed through a cylindrical case, gaps between ends of said cylindrical case and said lead conductors are sealingly closed, ends of said lead conductors have a disk-like shape, and ends of said fuse element are bonded to front faces of said disks.

12. (canceled)

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13. (currently amended) ~~An~~ The alloy type thermal fuse according to claim ~~5~~11, wherein said fuse element contains inevitable impurities ~~lead conductors are bonded to ends of said fuse element, respectively, a flux is applied to said fuse element, said flux applied fuse element is passed through a cylindrical case, gaps between ends of said cylindrical case and said lead conductors are sealingly closed, ends of said lead conductors have a disk-like shape, and ends of said fuse element are bonded to front faces of said disks.~~

14. (canceled)

15. (currently amended) ~~An~~ The alloy type thermal fuse according to claim 7, wherein lead conductors are bonded to ends of said fuse element, respectively, a flux is applied to said fuse element, said flux-applied fuse element is passed through a cylindrical case, gaps between ends of said cylindrical case and said lead conductors are sealingly closed, ends of said lead conductors have a disk-like shape, and ends of said fuse element are bonded to front faces of said disks.

16. (cancelled)

17. (currently amended) ~~An~~ The alloy type thermal fuse according to claim 9, wherein lead conductors are bonded to ends of said fuse element, respectively, a flux is applied to said fuse element, said flux-applied fuse element is passed through a cylindrical case, gaps between ends of said cylindrical case and said lead conductors are sealingly closed, ends of said lead conductors have a disk-like shape, and ends of said fuse element are bonded to front faces of said disks.

18. (cancelled)

19. (currently amended) ~~An~~ An alloy type thermal fuse according to claim ~~3~~ containing a thermal fuse element comprising an alloy composition in which Bi is larger than 50% and 56% or smaller, and a balance is Sn, wherein a pair of film electrodes are formed on a substrate by printing conductive paste containing metal particles and a binder, said fuse element is connected between said film electrodes, and said metal particles are made of a material selected from the group consisting of Ag, Ag-Pd, Ag-Pt, Au, Ni, and Cu.

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20. (cancelled)

21. (currently amended) ~~An~~ The alloy type thermal fuse according to claim ~~5~~19, wherein said fuse element contains inevitable impurities ~~a pair of film electrodes are formed on a substrate by printing conductive paste containing metal particles and a binder, said fuse element is connected between said film electrodes, and said metal particles are made of a material selected from the group consisting of Ag, Ag-Pd, Ag-Pt, Au, Ni, and Cu.~~

22-26. (cancelled)

27. (currently amended) ~~An~~ The alloy type thermal fuse according to claim 7, wherein a heating element for fusing off said fuse element is additionally disposed.

28. (cancelled)

29. (currently amended) ~~An~~ The alloy type thermal fuse according to claim 9, wherein a heating element for fusing off said fuse element is additionally disposed.

30. (cancelled)

31. (currently amended) ~~An~~ The alloy type thermal fuse according to claim 11, wherein a heating element for fusing off said fuse element is additionally disposed.

32. (cancelled)

33. (currently amended) ~~An~~ The alloy type thermal fuse according to claim 13, wherein a heating element for fusing off said fuse element is additionally disposed.

34. (cancelled)

35. (currently amended) ~~An~~ The alloy type thermal fuse according to claim 15, wherein a heating element for fusing off said fuse element is additionally disposed.

36. (cancelled)

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37. (currently amended) ~~An~~ The alloy type thermal fuse according to claim 17, wherein a heating element for fusing off said fuse element is additionally disposed.

38. (cancelled)

39. (currently amended) ~~An~~ The alloy type thermal fuse according to claim 19, wherein a heating element for fusing off said fuse element is additionally disposed.

40. (cancelled)

41. (currently amended) ~~An~~ The alloy type thermal fuse according to claim 21, wherein a heating element for fusing off said fuse element is additionally disposed.

42. (cancelled)